

Contributors to This Issue

W. S. BROWN, B.S., 1956, Yale University; Ph.D., 1961, Princeton University; Bell Telephone Laboratories, 1961—. Since joining Bell Laboratories, Mr. Brown has been working on the theoretical and practical problems of symbolic computing. Member, American Physical Society, Association for Computing Machinery, Phi Beta Kappa, Sigma Xi, and AAAS.

M. DiDOMENICO, JR., B.S., 1958, M.S., 1959, Ph.D., 1963, Stanford University; Bell Telephone Laboratories, 1962—. He has been engaged in investigations on electro-optics and electro-optic light modulators. He has also worked on photoconductive detectors of microwave modulated light, and has been concerned with the physical processes involved in solid-state photodetectors. Member, American Physical Society, IEEE, Sigma Xi and Tau Beta Pi.

G. P. ESPINOSA, B.A., 1961, University of Connecticut; Bell Telephone Laboratories, 1961—. He has been chiefly concerned with crystal-chemical studies of garnets.

SEYMOUR GELLER, A.B., 1941, and Ph.D., 1949, Cornell University; DuPont Postdoctoral Fellow at Cornell, 1949-50; DuPont Company, 1950-52; Bell Telephone Laboratories, 1952—. At Bell Laboratories he has specialized in studies of crystal structure, with emphasis on crystal chemistry studies and the relation of the properties of crystals to their structures. Fellow, American Physical Society; Member, American Crystallographic Association, Mineralogical Society of America, Summit Association of Scientists (of the Research Society of America), Sigma Xi and Phi Kappa Phi.

JOHN P. HYDE, A.B., Princeton University, 1959; M.S., Northwestern University, 1960; Bell Telephone Laboratories, 1960—. He has worked on machine aids to design, and especially computer aids to sequential

circuit synthesis. He is presently engaged in further development of the ALPAK system and other aspects of computer algebra.

DAVID A. LEWINSKI, B.Sc. Hons., 1952 and M.Sc., 1956, University of Manitoba; Bell Telephone Company of Canada, 1954-1956; Bell Telephone Laboratories, 1956—. At Bell Laboratories he has been concerned mainly with the systems engineering aspects of message circuit noise evaluation, in particular with studies to describe the subjective effects of noise on speech transmission and surveys to assess Bell System message circuit noise performance. He has taught in the out-of-hours study program. At present he supervises a group working on transmission objectives for voice-band data communications. Member, The Mathematical Association of America.

GOTTFRIED W. LUDERER, Dipl. Ing. E.E., 1959, Technische Hochschule, Braunschweig, Germany; 1959-62, Scientific Assistant at the Computation Center, Technische Hochschule Braunschweig; since 1962 at the Institut fuer Hoechsthfrequenztechnik, Technische Hochschule, Braunschweig. Mr. Luderer is presently engaged in research in microwaves. Member, IEEE, German Association for Applied Mathematics and Mechanics, German Communication Engineering Society.

DIETRICH MARCUSE, Diplom Vorpruefung, 1952, and Dipl. Phys., 1954, Berlin Free University; D.E.E., 1962, Technische Hochschule, Karlsruhe, Germany; Siemens and Halske (Germany), 1954-1957; Bell Telephone Laboratories, 1957—. At Siemens and Halske Mr. Marcuse was engaged in transmission research, studying coaxial cable and circular waveguide transmission. At Bell Laboratories he has been engaged in studies of circular electric waveguides and work on gaseous masers. Member, IEEE.

SAMUEL P. MORGAN, B.S., 1943, M.S., 1944, and Ph.D., 1947, California Institute of Technology; Bell Telephone Laboratories, 1947—. A research mathematician, Mr. Morgan has been particularly concerned with the applications of electromagnetic theory to microwave and other problems. As Head, Mathematical Physics Department, he now supervises a research group in various fields of mathematical physics. Fellow, IEEE; member, American Physical Society, Sigma Xi, Tau Beta Pi and AAAS.

INGEMAR NÅSELL, Civilingenjör, 1955, Royal Institute of Technology, Stockholm, Sweden; M.E.E., 1962, New York University; Research

Institute of National Defense, Stockholm, Sweden, 1955-1960; Bell Telephone Laboratories, 1960—. At Bell Laboratories he has been engaged in various aspects of the work on new noise objectives. In this connection, he has introduced probability sampling techniques as a tool for surveying the transmission performance of different parts of the toll network. He is presently engaged in further work on such surveys in order to acquire the information necessary for building a mathematical model of the Bell System toll network. Member, Svenska Teknologföreningen, Acoustical Society of America, and Eta Kappa Nu.

RICHARD H. PANTELL, B.S. and M.S., 1950, Massachusetts Institute of Technology; Ph.D., 1954, Stanford University; Instructor in Electrical Engineering, Brooklyn Polytechnic Institute, 1950-51; Research Assistant, Stanford Electronics Research Laboratory, 1951-54; Assistant Professor of Electrical Engineering, Stanford University, 1954-56; Visiting Assistant Professor, University of Illinois, 1956-57; Professor of Electrical Engineering, Stanford University, 1957—. At Stanford University he is continuing his research into the generation of micro-wave energy.

E. O. SCHULZ-DUBOIS, Dipl. phys., 1950, and Dr. phil. nat., 1954, Johann Wolfgang Goethe University (Germany); Purdue University, 1954-1955; Raytheon Manufacturing Co., 1956-1957; Bell Telephone Laboratories, 1957—. At Purdue Mr. Schulz-DuBois was engaged in paramagnetic resonance studies of irradiated semiconductors. At Raytheon he was concerned with the development of ferrite materials and devices. After joining Bell Laboratories his work was with paramagnetic materials, slow-wave structures, and ferrimagnetic isolators for application to solid state maser devices. More recently he was responsible for a group engaged in advanced development of traveling-wave masers and in related exploratory studies. Since September 1963 he has been on sabbatical leave as visiting professor at Technische Hochschule, Karlsruhe (Germany).

RICHARD C. SHERWOOD, Cert. Ind. Chem., 1952, Franklin Technical Institute; Bell Telephone Laboratories, 1952—. He has worked on research in magnetism, including studies of ferromagnetic domains. At present he is working on susceptibility measurements at low temperatures. Member, American Physical Society.

ORAZIO SVELTO, degree in nuclear engineering, Politecnico di Milano, Milan, Italy, 1960; Istituto di Fisica del Politecnico di Milano, 1960-61;

Microwave Laboratory, Stanford University, 1961-62; Istituto di Fisica del Politecnico di Milano, 1963—. He has worked on nuclear paramagnetic resonance studies, optical masers, and is presently working on optical masers and nonlinear optical effects.

BERKLEY A. TAGUE, B.A., 1958 Wesleyan University, S.M., 1960, Massachusetts Institute of Technology; Bell Telephone Laboratories, 1960—. He has worked in the general field of digital computers, with particular emphasis on stochastic simulation, instruction in computers and computer programming, and new computer applications. Member, Association for Computing Machinery, Mathematical Association of America, Sigma Xi and Phi Beta Kappa.

HANS-GEORG UNGER, Dipl. Ing., 1951 and Dr. Ing., 1954, Technische Hochschule, Braunschweig (Germany); Siemens and Halske (Germany), 1951-55; Bell Telephone Laboratories, 1956-1961. His work at Bell Laboratories was in research in waveguides, especially circular electric wave transmission. He is now Professor of Electrical Engineering at the Technische Hochschule in Braunschweig. Senior member, IEEE; member, German Communication Engineering Society.

H. J. WILLIAMS, A.B. 1925, University of Wisconsin; Western Electric Co., 1926-27; graduate studies at University of Wisconsin 1927-29; Bell Telephone Laboratories, 1929—. He has been engaged in the study of magnetic materials and magnetic domain structures. He is presently investigating the magnetic properties of alloys and compounds at low temperatures. Fellow, American Physical Society.

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